

ABSTRACT OF THE DISCLOSURE

A punch pin includes three terminal ends extending from a periphery of an end of the body and each terminal end has a tip portion located between two cutting edges, A groove is defined in the end having

5 the terminal ends and enclosed by the three terminal ends. The three respective tip portions are located at three parallel planes which are perpendicular to a longitudinal axis of the cylindrical body. The groove includes an upper curved surface, a curved area and three inner surfaces of the three terminal ends. The upper curved surface connects the curved area.

10 The peak force for punching a stack of paper is less than conventional punch pin and the resistant force coming from the deformation of the paper being punched out.